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(54) Title: G-RICH OLIGO APTAMERS AND METHODS OF MODULATING AN IMMUNE RESPONSE (57) Abstract <p>Aptamer oligonucleotides specifically bind to the DNA binding site of proteins such as Sp1 and Sp1-related proteins which regulate the genes which encode costimulatory molecules such as CD28 and cytokines such as IL-2 and GM-CSF. The oligonucleotides compete with the DNA-binding sites of regulatory proteins which specifically regulate molecules to modulate T-cell activation. This serves to modulate gene expression by preventing transcription of the gene. Aptamers are administered to provide therapies for diseases which involve aberrant T-cell activation such as psoriasis, Type I (insulin-dependent) diabetes mellitus, multiple sclerosis, autoimmune uveitis, rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disease (Crohn's and ulcerative colitis), and septic shock and to regulate normal T-cell activation such as in allograft rejection.</p>		

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